4.2.B. 0513010402.

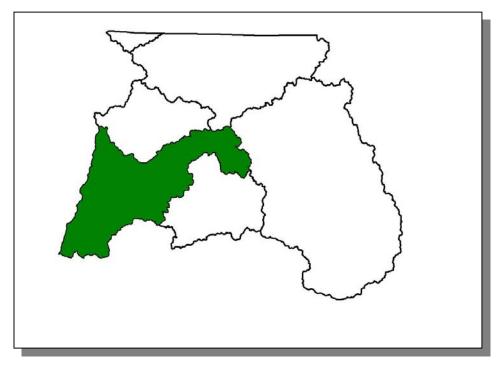


Figure 4-69. Location of Subwatershed 0513010402. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.B.i. 051301040201 (North Prong Clear Fork).

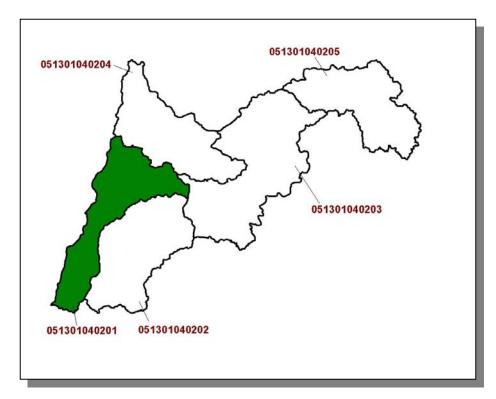


Figure 4-70. Location of Subwatershed 051301040201. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

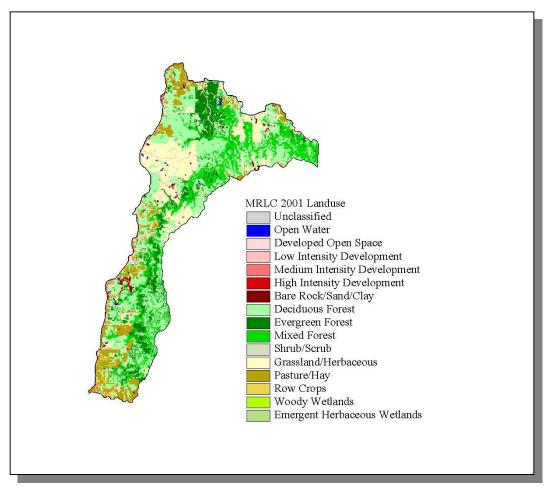


Figure 4-71. Illustration of Land Use Distribution in Subwatershed 051301040201.

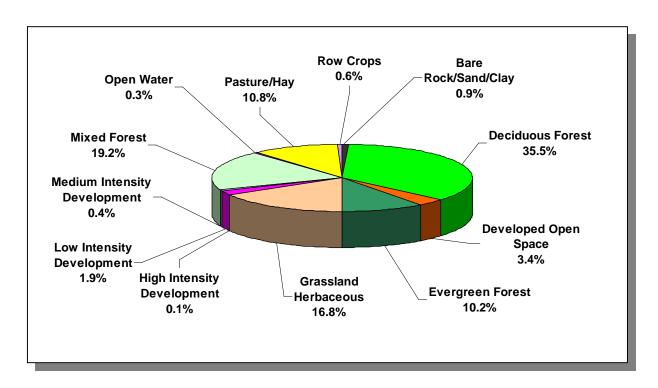


Figure 4-72. Land Use Distribution in Subwatershed 051301040201. More information is provided in Appendix IV.

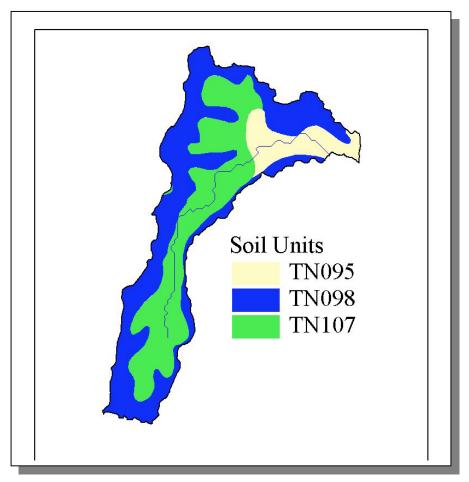


Figure 4-73. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040201.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	С	3.98	4.82	Loam	0.32
TN107	1.00	С	6.34	4.84	Loam	0.28

Table 4-52. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040201. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION							
County			Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)	
Fentress	14,669	15,920	16,625	6.47	948	1,029	1,075	13.4

Table 4-53. Population Estimates in Subwatershed 051301040201.

4.2.B.i.a. Point Source Contributions.



Figure 4-74. Location of Permits Issued in Subwatershed 051301040201. More information, including the names of facilities, is provided in Appendix IV.

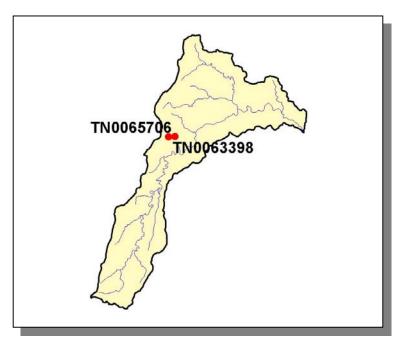


Figure 4-75. Location of Active Mining Sites in Subwatershed 051301040201. More information, including the names of mining operations, is provided in Appendix IV.

4.2.B.i.b. Nonpoint Source Contributions.

	LIVESTOCK (COUNTS)					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
792	1,696	42	< 5	716,228	72	8

Table 4-54. Summary of Livestock Count Estimates in Subwatershed 051301040201.According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79

Table 4-55. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	ITORY	REMOVAL RATE		
County	Forest Land (thousand acres)			Sawtimber (million board feet)	
Fentress	244.1	244.1	3.6	14.3	

Table 4-56. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.4
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.4

Table 4-57. Annual Estimated Total Soil Loss in Subwatershed 051301040201.

4.2.B.ii. 051301040202 (South Prong Clear Fork).

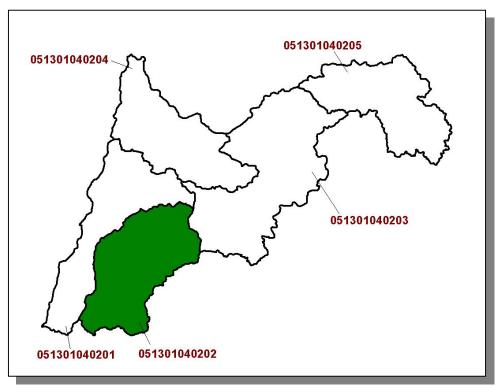


Figure 4-76. Location of Subwatershed 051301040202. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

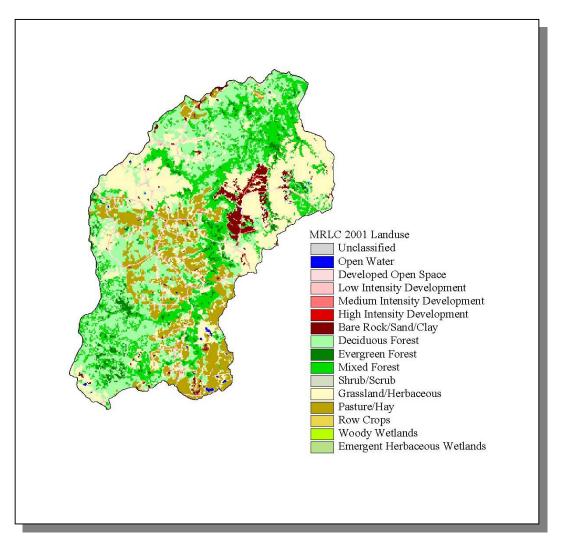


Figure 4-77. Illustration of Land Use Distribution in Subwatershed 051301040202.

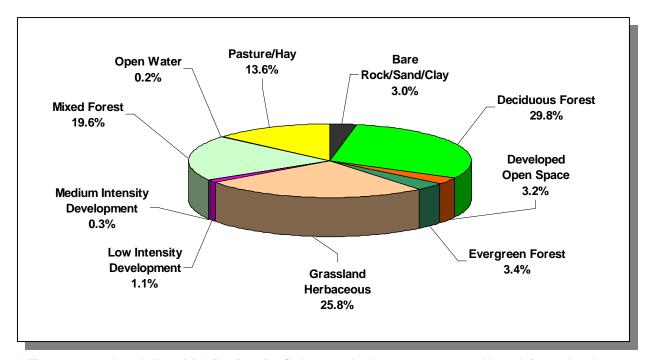


Figure 4-78. Land Use Distribution in Subwatershed 051301040202. More information is provided in Appendix IV.

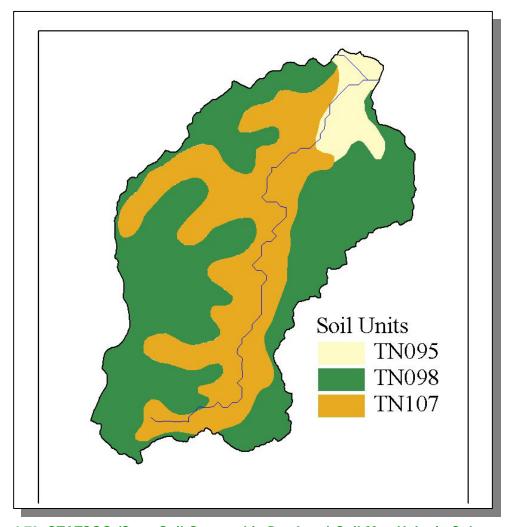


Figure 4-79. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040202.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	С	3.98	4.82	Loam	0.32
TN107	1.00	С	6.34	4.84	Loam	0.28

Table 4-58. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040202. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				IATED PO N WATER	PULATION SHED		
				Portion of				% Change
County	1990	1997	2000	Watershed (%)	1990	1997	2000	(1990-2000)
Fentress	14,669	15,920	16,625	6.52	957	1,038	1,084	13.3
Morgan	17,300	18,521	19,757	0.51	89	95	102	14.6
Total	31,969	34,441	36,382		1,046	1,133	1,186	13.4

Table 4-59. Population Estimates in Subwatershed 051301040202.

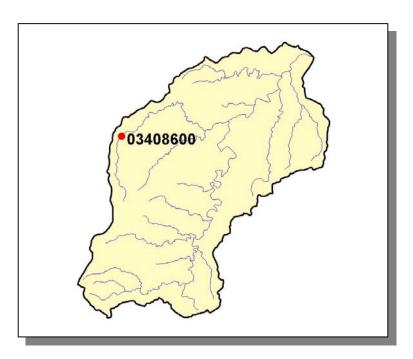


Figure 4-80. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040202. More information is provided in Appendix IV.

4.2.B.ii.a. Point Source Contributions.

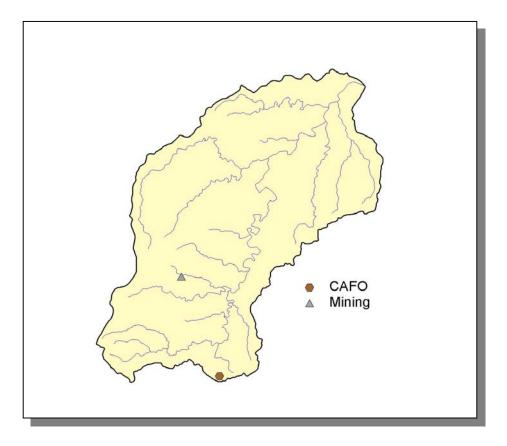


Figure 4-81. Location of Permits Issued in Subwatershed 051301040202. More information, including the names of facilities, is provided in Appendix IV.

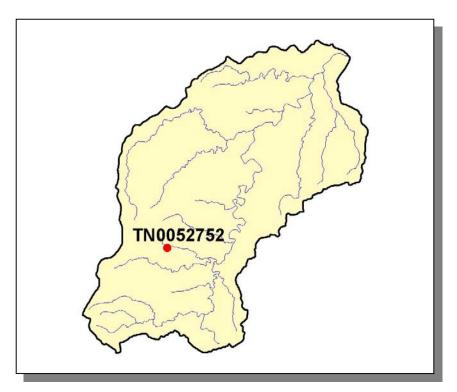


Figure 4-82. Location of Active Mining Sites in Subwatershed 051301040202. More information, including the names of mining operations, is provided in Appendix IV.

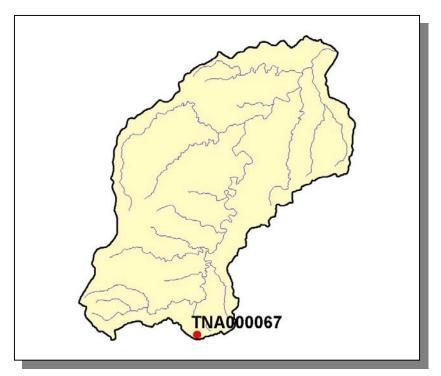


Figure 4-83. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 051301040202. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.ii.b. Nonpoint Source Contributions.

	LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep	
818	1,753	44	<5	740,319	74	8	

Table 4-60. Summary of Livestock Count Estimates in Subwatershed 051301040202. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	LIVESTOCK COUNTS						
				Chickens	Chickens		
County	Beef Cow	Cattle	Milk Cow	(Broilers Sold)	(Layers)	Hogs	Sheep
Fentress	8,058	17,259	430	7,290,026	474	729	79
Morgan	4,697	8,853	251	1,501,559	194	83	35

Table 4-61. Summary of Livestock Count Estimates in Fentress and Morgan Counties. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	ITORY	REMOVAL RATE		
	Forest Land	Timber Land	Growing Stock	Sawtimber	
County	(thousand acres)	(thousand acres)	(million cubic feet)	(million board feet)	
Fentress	244.1	244.1	3.6	14.3	
Morgan	287.8	276.2	3.5	10.9	

Table 4-62. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Morgan Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.70
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.53
Grass, Forbs, Legumes (Mixed Pasture)	0.26
Corn (Row Crops)	15.49
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crop	15.94
Farmsteads and Ranch Headquarters	0.37

Table 4-63. Annual Estimated Total Soil Loss in Subwatershed 051301040202.

4.2.B.iii. 051301040203 (Upper Clear Fork).

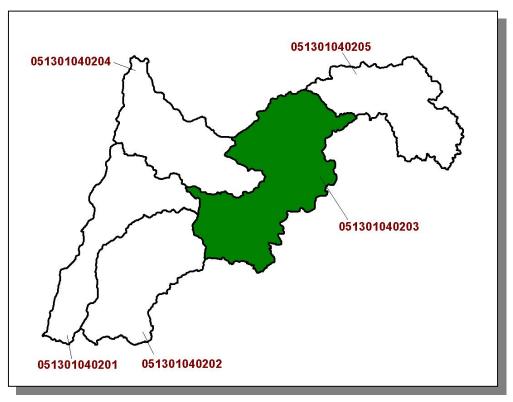


Figure 4-84. Location of Subwatershed 051301040203. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

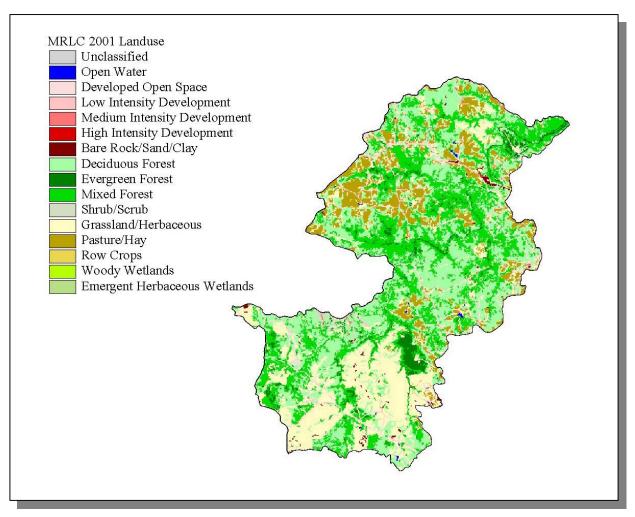


Figure 4-85. Illustration of Land Use Distribution in Subwatershed 051301040203.

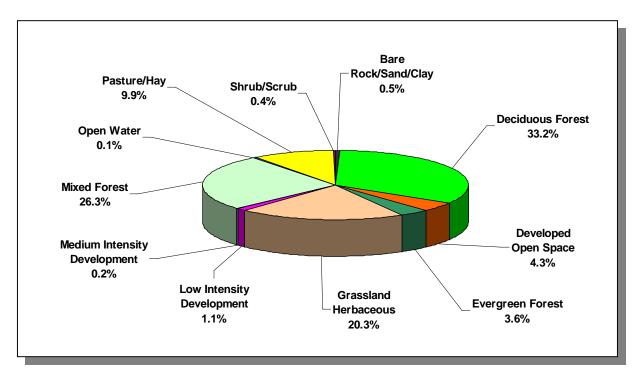


Figure 4-86. Land Use Distribution in Subwatershed 051301040203. More information is provided in Appendix IV.

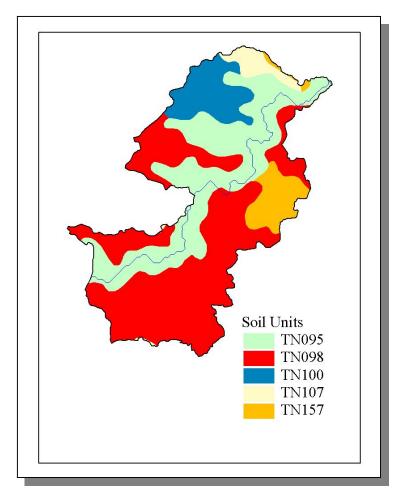


Figure 4-87. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040203.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	С	3.98	4.82	Loam	0.32
TN100	0.00	В	1.14	3.35	Silty Loam	0.21
TN107	1.00	С	6.34	4.84	Loam	0.28
TN157	0.00	В	2.38	4.62	Loam	0.28

Table 4-64. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040203. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION				IATED PC N WATER	PULATION SHED		
_				Portion of				% Change
County	1990	1997	2000	Watershed (%)	1990	1997	2000	(1990-2000)
Fentress	14,669	15,920	16,625	5.27	774	840	877	13.3
Morgan	17,300	18,521	19,757	4.82	834	893	953	14.3
Scott	18,358	19,816	21,127	0.01	2	2	2	0.0
Total	50,327	54,257	57,509		1,610	1,735	1,832	13.8

Table 4-65. Population Estimates in Subwatershed 051301040203.

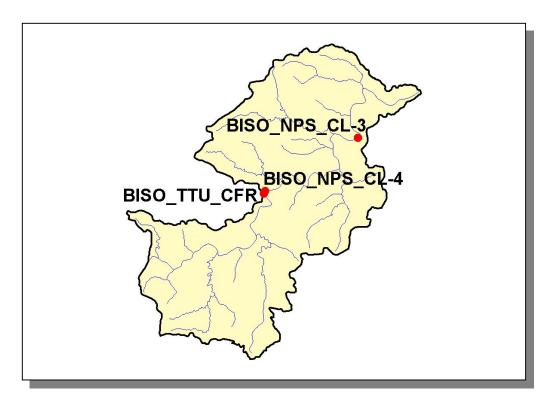


Figure 4-88. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040203. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.iii.a. Point Source Contributions.

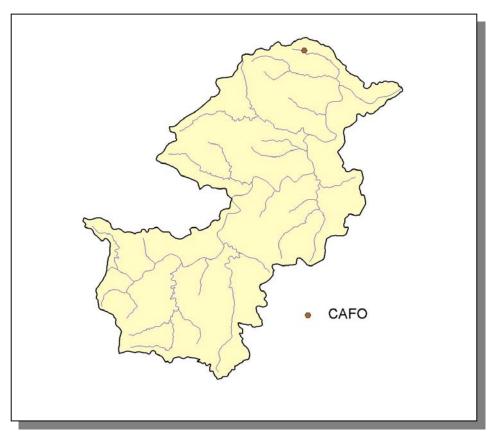


Figure 4-89. Location of Permits Issued in Subwatershed 0513010400203. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.iii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)							
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep	
904	1,861	48	<5	648,297	61	8	

Table 4-66. Summary of Livestock Count Estimates in Subwatershed 051301040203. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	LIVESTOCK COUNTS								
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep		
Fentress	8,058	17,259	430	7,290,026	474	729	79		
Morgan	4,697	8,853	251	1,501,559	194	83	35		
Scott	2,177	4,447	216	1,989,506	196	17	74		

Table 4-67. Summary of Livestock Count Estimates in Fentress, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	ITORY	REMOVAL RATE		
	Forest Land	Timber Land	Growing Stock	Sawtimber	
County	(thousand acres)	(thousand acres)	(million cubic feet)	(million board feet)	
Fentress	244.1	244.1	3.6	14.3	
Morgan	287.8	276.2	3.5	10.9	
Scott	300.3	300.3	5.5	21.4	

Table 4-68. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress, Morgan, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.58
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.39
Grass, Forbs, Legumes (Mixed Pasture)	0.19
Corn (Row Crops)	11.78
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.22

Table 4-69. Annual Estimated Total Soil Loss in Subwatershed 051301040203.

4.2.B.iv. 051301040204 (Crooked Creek).

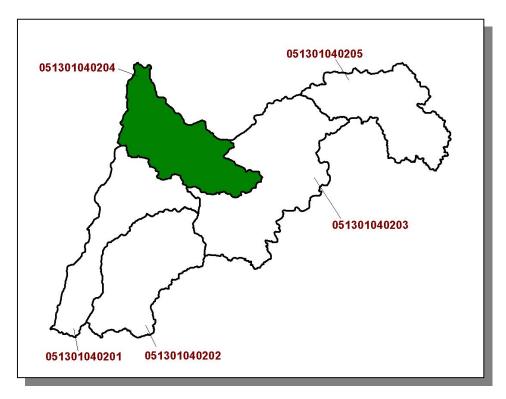


Figure 4-90. Location of Subwatershed 051301040204. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

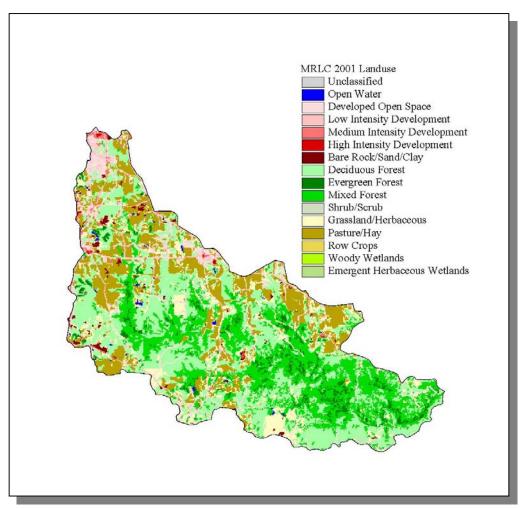


Figure 4-91. Illustration of Land Use Distribution in Subwatershed 051301040204.

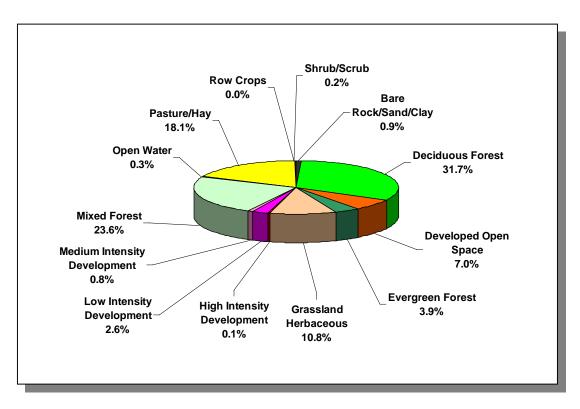


Figure 4-92. Land Use Distribution in Subwatershed 051301040204. More information is provided in Appendix IV.

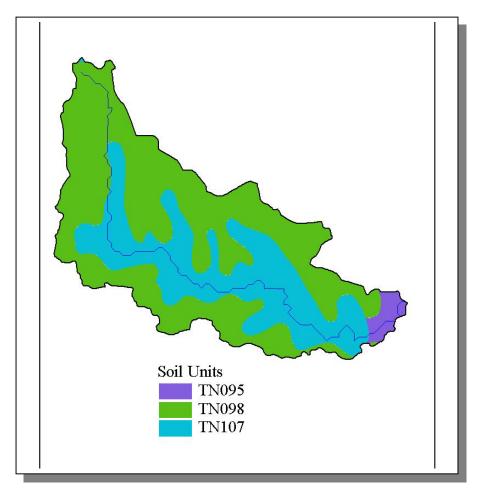


Figure 4-93. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040204.

STATSGO	PERCENT	HYDROLOGIC	PERMEABILITY	SOIL	ESTIMATED	SOIL
MAP UNIT ID	HYDRIC	GROUP	(in/hour)	pН	SOIL TEXTURE	ERODIBILITY
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	С	3.98	4.82	Loam	0.32
TN107	1.00	С	6.34	4.84	Loam	0.28

Table 4-70. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040204. The definition of "Hydrologic Group" is provided in Appendix IV.

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	COUNTY POPULATION							
County	1990 1997 2000		Portion of Watershed (%)	1990	1997	2000	% Change (1990-2000)	
Fentress	14,669	15,920	16,625	6.52	956	1,037	1,083	13.3

Table 4-71. Population Estimates in Subwatershed 051301040204.

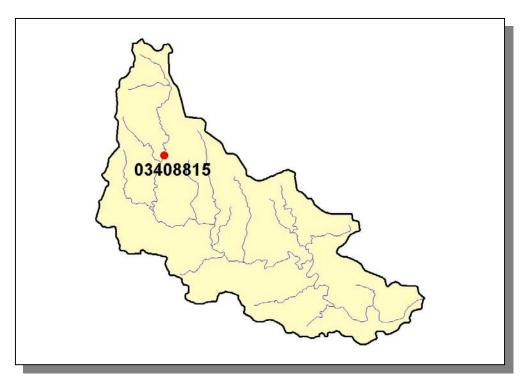


Figure 4-94. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040204. More information is provided in Appendix IV.

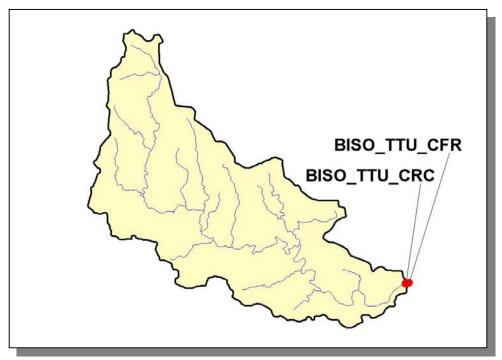


Figure 4-95. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040204. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.iv.a. Point Source Contributions.

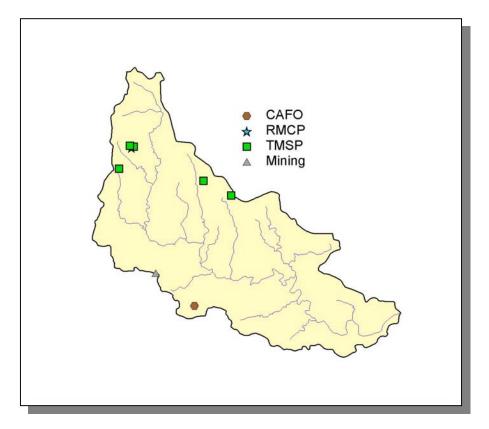


Figure 4-96. Location of Permits Issued in Subwatershed 051301040204. More information, including the names of facilities, is provided in Appendix IV.

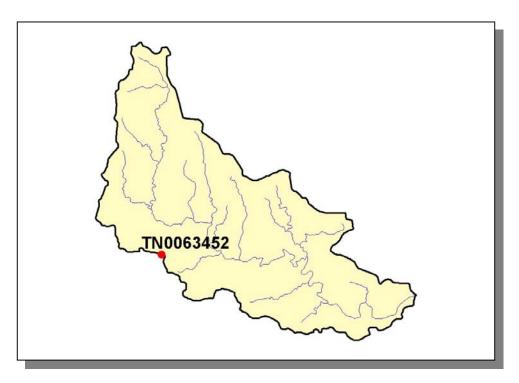


Figure 4-97. Location of Active Mining Sites in Subwatershed 051301040204. More information, including the names of mining operations, is provided in Appendix IV.

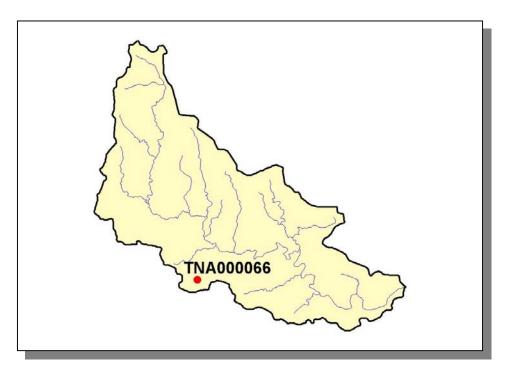


Figure 4-98. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 0513010204. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-99. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051301040204. More information is provided in Appendix IV.

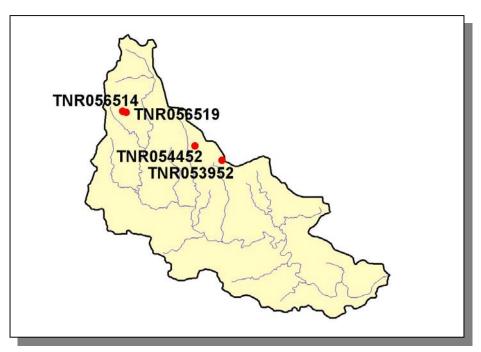


Figure 4-100. Location of TMSP Sites in Subwatershed 051301040204. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.iv.b. Nonpoint Source Contributions.

	LIVESTOCK (COUNTS)							
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep		
938	2,010	50	< 5	848,987	85	9		

Table 4-72. Summary of Livestock Count Estimates in Subwatershed 051301040204. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep	
Fentress	8,058	17,259	430	7,290,026	474	729	79	

Table 4-73. Summary of Livestock Count Estimates in Fentress County. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	NTORY	REMOVAL RATE		
County	Forest Land Timber Land (thousand acres)		Growing Stock (million cubic feet)	Sawtimber (million board feet)	
County	(inousanu acres)	(iiiousaiiu acies)	(million cubic leet)	(million board reet)	
Fentress	244.1	244.1	3.6	14.3	

Table 4-74. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.72
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.40
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.40

Table 4-75. Annual Estimated Total Soil Loss in Subwatershed 051301040204.

4.2.B.v. 051301040205 (Lower Clear Fork).

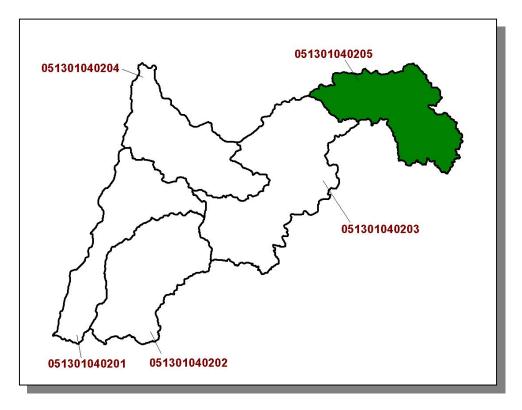


Figure 4-101. Location of Subwatershed 051301040205. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

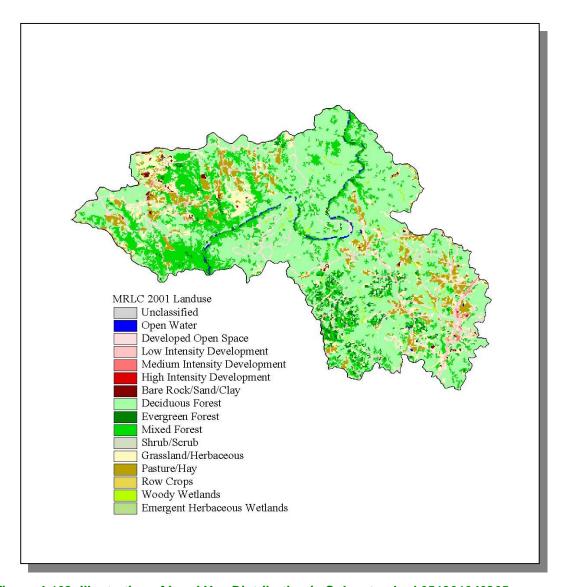


Figure 4-102. Illustration of Land Use Distribution in Subwatershed 051301040205.

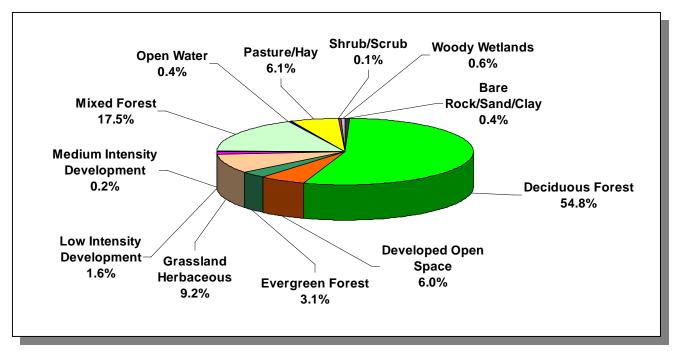


Figure 4-103. Land Use Distribution in Subwatershed 051301040205. More information is provided in Appendix IV.

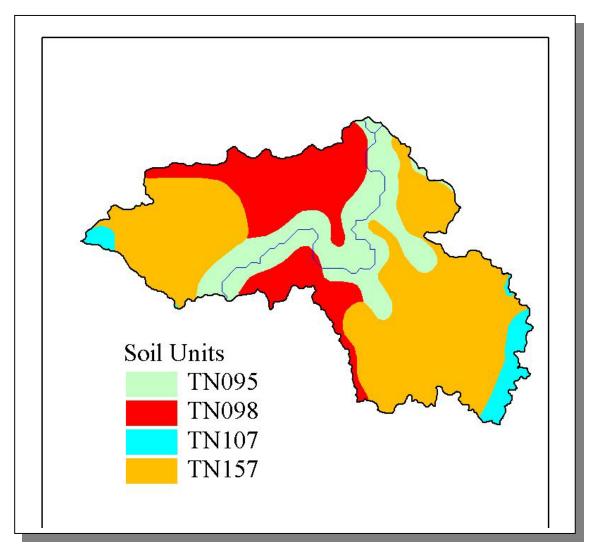


Figure 4-104. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040205.

STATSGO	PERCENT	HYDROLOGIC	PERMEABILITY	SOIL	ESTIMATED	SOIL
MAP UNIT ID	HYDRIC	GROUP	(in/hour)	рН	SOIL TEXTURE	ERODIBILITY
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	С	6.34	4.84	Loam	0.28
TN157	0.00	В	2.38	4.62	Loam	0.28

Table 4-76. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040205. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
				Portion of				% Change
County	1990	1997	2000	Watershed (%)	1990	1997	2000	(1990-2000)
Fentress	14,669	15,920	16,625	1.75	257	279	292	13.6
Scott	18,358	19,816	21,127	4.06	745	804	857	15.0
Total	33,027	35,736	37,752		1,002	1,083	1,149	14.7

Table 4-77. Population Estimates in Subwatershed 051301040205.

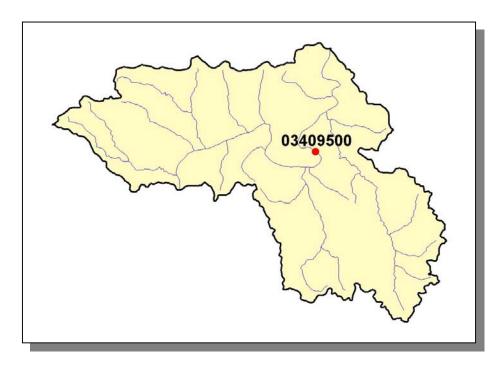


Figure 4-105. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040205. More information is provided in Appendix IV.

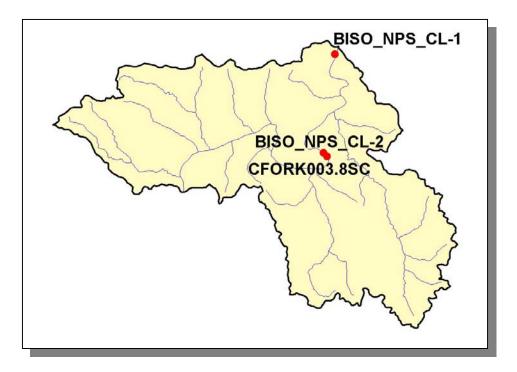


Figure 4-106. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040205. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.v.a. Point Source Contributions.

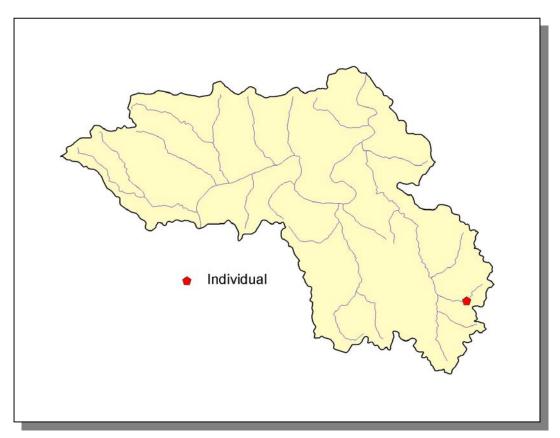


Figure 4-107. Location of Permits Issued in Subwatershed 051301040205. More information, including the names of facilities, is provided in Appendix IV.

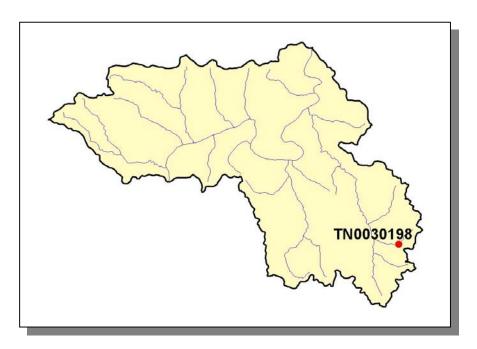


Figure 4-108. Location of Active NPDES Sites in Subwatershed 051301040205. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.v.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)								
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep		
173	360	14	<5	157.730	7	<5		

Table 4-78. Summary of Livestock Count Estimates in Subwatershed 051301040205. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
,				, , , , , , , , , , , , , , , , , , , ,	(, /	- 3-	
Fentress	8,058	17,259	430	7,290,026	474	729	79
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-79. Summary of Livestock Count Estimates in Fentress and Scott Counties. According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	NTORY	REMOVAL RATE		
	Forest Land Timber Land		Growing Stock	Sawtimber	
County	(thousand acres)	(thousand acres)	(million cubic feet)	(million board feet)	
Fentress	244.1	244.1	3.6	14.3	
Scott	300.3	300.3	5.5	21.4	

Table 4-80. Forest Acreage and Annual Removal Rates (1987-1994) in Fentress and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.44
Legumes, Grass (Hayland)	0.56
Grass, Forbs, Legumes (Mixed Pasture)	0.49
Corn (Row Crops)	16.18
Soybeans (Row Crops)	6.00
Wheat (Close-Grown Cropland)	43.4
Other Vegetable and Truck Crops	15.94
Farmsteads and Ranch Headquarters	0.18

Table 4-81. Annual Estimated Total Soil Loss in Subwatershed 051301040205.